

Standard Jacket: HCAHY-50-9 (1/2" Superflexible)

Fire retardant Jacket: HCAHYZ-50-9(1/2" Superflexible)

Characteristics

Low Attenuation, low VSWR,
High expansion, high power rating,
Excellent environmental performance
and Mechanical Performance.

Application

Widely used in wireless
communication base station.

Construction

Inner conductor	
Copper Clad Aluminum	
Diameter (mm)	3.60±0.10
Insulation	
3 layers of Insulation	
Diameter (mm)	10.00±0.40
Outer conductor	
Corrugated Copper-tube	
Outer conductor (mm)	12.00±0.30
Jacket	
Thickness (mm)	0.70±0.20
Diameter (mm)	13.40±0.20

Engineering data

Minimum Bending Radius (mm)	
Single Bending	25
Multiple Bending	30
Temperature range (°C)	
Standard jacket	-40~+70
Fire Retardant Jacket	-25~+70

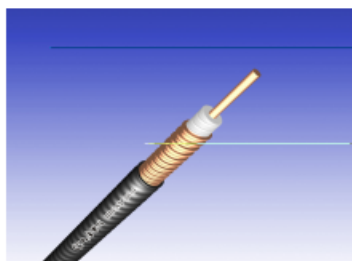
Standard Conditions:

For attenuation: VSWR 1.0, cable temperature 20°C

For average power: VSWR 1.0, ambient temperature 40°C

Inner conductor temperature 100°C. No solar loading.

Maximum VSWR and attenuation value shall be
105% off the nominal value.



1/2" Superflexible Coaxial Cable

Electrical Performance

Impedance (Ω)	50 ± 1	
Capacitance (pF/m)	82 ± 2	
Velocity (%)	84	
Dc Breakdown, volts (V)	≥2500	
Shielding Effectiveness (dB)	>>120	
Cut-off Frequency (GHz)	10.2	
Attenuation (dB/100m) and average power (kW)		
Frequency	Attenuation	Average Power
150 MHz	4.21	2.51
450 MHz	7.59	1.41
800 MHz	10.40	1.00
900 MHz	11.20	0.96
1800 MHz	16.60	0.62
2000 MHz	17.60	0.60
2500 MHz	19.20	0.53
3000 MHz	22.40	0.47
3500 MHz	24.58	0.44
4000 MHz	26.65	0.43
5000 MHz	30.55	0.36
VSWR		
800MHz~1000MHz	1.10	
1700MHz~2200MHz	1.10	
2200MHz~2700MHz	1.15	
3300MHz~3600MHz	1.20	
4400MHz~5000MHz	1.20	